# Solarland Grid Connect Solar Kits
# User Manual

SOLARLAND®
AUSTRALIA

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## 1. Introduction

Thank you for placing confidence in Solarland and congratulations on the installation of your new solar power system. Our Solar Kits have been designed to provide flexibility of use and ease of installation and are designed to meet standards and to perform in Australian conditions.

These operating instructions describes the operation of Solarland's various kits. Invariably, the only major difference between systems will be the amount of solar panels on your roof and the type of inverter used. For your ease of reference, we have included in this manual a simple overview of inverter operations for both the inverters we use in our kits. For more information and troubleshooting please see the inverter operations manual that is supplied with your inverter. You can also view your system diagram in Appendix A.

This documentation is intended for the operator of the system. Information provided in this document is primarily related to the operation of the unit, display and safety instructions. Be sure to read this manual and the inverter manual carefully before using. If you encounter any problems during operation of this unit, first check this manual before contacting your dealer. You should retain this manual and the inverter manuals for trouble shooting in the future.

## 2. How your Solarland Solar Power System Works

Solar electricity generation works by converting energy from the sun, in the form of light, into electricity. An overview of the system is provided in the diagrams on the following page.

- Solar modules contain multiple numbers of solar cells encased in a durable casing. Toughened glass is used to cover and protect the solar cells and an anti reflective coating is used to minimize light reflection from the surface.
- A DC protection breaker is installed on your roof, this breaker enables one to isolate the solar panels from the rest of the house by disconnecting them from the inverter.
- The inverter converts DC electricity produced from the solar panels to AC electricity which is the type of electricity you use in your house and can be fed into the electricity grid.
- In between your inverter and the meter box, we include another AC and DC protection circuit, enabling one to disconnect the DC current coming from your panels into the inverter or the AC current coming out of the inverter into the meter box.

## 3. System Performance

Your solar system will generate different amounts of electricity depending on your location, the amount of sunlight, the array angle and direction, and whether there is any shading on your panels at any point during the day. Weather on a day to day and season to season basis will dramatically effect the output of your systems.

On average, you can expect the following electricity production, measured in kWh.

**SOLARLAND MONO-CRYSTILLINE KITS**

| | Estimated average power production from the | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5kW Kit (kWh per) | | 1.9kW Kit (kWh per) | | 2.3kW Kit (kWh per) | | 3.0kW Kit (kWh per) | | 3.99kW Kit (kWh per) | | 4.9kW Kit (kWh per) | | 5.1kW Kit (kWh per) | |
| **Location** | **year** | **day** | **year** | **day** | **year** | **day** | **year** | **day** | **year** | **day** | **year** | **day** | **year** | **day** |
| Sydney | 2164 | 5.9 | 2705 | 7.4 | 3246 | 8.9 | 4327 | 11.9 | 5680 | 15.6 | 7032 | 19.3 | 7303 | 20.0 |
| Melbourne | 1997 | 5.5 | 2497 | 6.8 | 2996 | 8.2 | 3995 | 10.9 | 5243 | 14.4 | 6491 | 17.8 | 6741 | 18.5 |
| Brisbane | 2330 | 6.4 | 2913 | 8.0 | 3495 | 9.6 | 4660 | 12.8 | 6117 | 16.8 | 7573 | 20.7 | 7864 | 21.5 |
| Adelaide | 2330 | 6.4 | 2913 | 8.0 | 3495 | 9.6 | 4660 | 12.8 | 6117 | 16.8 | 7573 | 20.7 | 7864 | 21.5 |
| Perth | 2441 | 6.7 | 3051 | 8.4 | 3662 | 10.0 | 4882 | 13.4 | 6408 | 17.6 | 7934 | 21.7 | 8239 | 22.6 |
| Darwin | 2441 | 6.7 | 3051 | 8.4 | 3662 | 10.0 | 4882 | 13.4 | 6408 | 17.6 | 7934 | 21.7 | 8239 | 22.6 |
| Canberra | 2386 | 6.5 | 2982 | 8.2 | 3578 | 9.8 | 4771 | 13.1 | 6262 | 17.2 | 7753 | 21.2 | 8052 | 22.1 |

**SOLARLAND POLY-CRYSTILLINE KITS**

| | Estimated average power production from the | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5kW Kit (kWh per) | | 2.0kW Kit (kWh per) | | 2.3kW Kit (kWh per) | | 3.0kW Kit (kWh per) | | 4.1kW Kit (kWh per) | | 4.1kW Kit (kWh per) | |
| **Location** | **year** | **day** | **year** | **day** | **year** | **day** | **year** | **day** | **year** | **day** | **year** | **day** |
| Sydney | 2114 | 5.8 | 2947 | 8.1 | 3274 | 9.0 | 4256 | 11.7 | 5893 | 16.1 | 7203 | 19.7 |
| Melbourne | 1951 | 5.3 | 2720 | 7.5 | 3022 | 8.3 | 3929 | 10.8 | 5440 | 14.9 | 6649 | 18.2 |
| Brisbane | 2277 | 6.2 | 3173 | 8.7 | 3526 | 9.7 | 4584 | 12.6 | 6347 | 17.4 | 7757 | 21.3 |
| Adelaide | 2277 | 6.2 | 3173 | 8.7 | 3526 | 9.7 | 4584 | 12.6 | 6347 | 17.4 | 7757 | 21.3 |
| Perth | 2385 | 6.5 | 3324 | 9.1 | 3694 | 10.1 | 4802 | 13.2 | 6649 | 18.2 | 8126 | 22.3 |
| Darwin | 2385 | 6.5 | 3324 | 9.1 | 3694 | 10.1 | 4802 | 13.2 | 6649 | 18.2 | 8126 | 22.3 |
| Canberra | 2331 | 6.4 | 3249 | 8.9 | 3610 | 9.9 | 4693 | 12.9 | 6498 | 17.8 | 7942 | 21.8 |

## 4. Safety

The following safety instructions are important. They help protect your personal safety and also are intended to assist you get the optimum performance of your solar system. The safety instructions must NOT be ignored.

- **Appropriately Licensed Electricians:**
  The service and maintenance of your solar system must be carried out by a licensed electrical contractor in strict compliance with the Australian building and electrical safety rules. If you are not a licensed electrical contractor or a qualified person do not attempt to do any modification and/or maintenance work on the solar power system. Doing so may put you in danger and may also void component warranties.

- **Safety Guidelines**

**Your solar system produces electricity at levels that can be FATAL if safety measures are not followed. Never ignore safety instructions.**

a. Never pour cold water on solar module surfaces when the sun is shining and they are hot. Doing so can shatter the solar module glass. This type of damage will not be covered by the solar module warranty. This activity could also expose you to the danger of electrocution.
   Never walk on the surface of the solar modules. Doing so will damage the solar module and will not be covered by warranty.
b. Avoid working in the vicinity of the installed solar module area when raining or when the area is still wet.
   The installed solar power system generates electricity when exposed to the sun. The generated voltage is dangerous and can be fatal. The whole surface must be covered by black sheets prior to working on the system, in order to ensure that no electricity is being generated.
c. Observe all safety signs installed as part of your system.
d. Please note that DC voltages will be present on the solar module side of the inverter even if the isolating circuit breakers are completely switched off.

- **Opening, Repair and Modification system components**
  Do not open any of the components of your solar power system unless you are a qualified licensed electrical contractor. Any work on the electrical components, such as repairs or modifications, must be carried out by a licensed electrical contractor.

- **Shutting down**
  The solar power system must be shut down before commencing any electrical work on the building. The licensed electrician must follow the following proceedure to shut down the system, please refer to the system drawings in Appendix A.

  **Step 1-**Disconnect the utility grid system from the inverter via the AC Grid Disconnection Circuit Breaker
  **Step 2-**Disconnect the DC power to the inverter at the DC side of the inverter via Grid Disconnection Circuit Breaker;
  **Step 3-** Disconnect the DC power isolation switch on the roof of your house;
  **Step 4-**Disconnect all MC plugs between solar modules to create lower voltage for a safe work environment.

**Even when the system has been disconnected, the solar panels will still produce electricity during daylight hours. Care must be taken.**

- **Fire**
  Alert your fire department on arrival that you have a solar system. The system should be shut down the system as far as possible and all circuit breakers must remain off until the fire is extinguished.

- **Safe work on roofs**
  If persons are working on your roof, it you must make them aware that there is the possibility of a small, non-lethal electrical charge being present in the base frame and module frames.

- **Cleaning the solar array**
  Depending on the roof slope, the solar panels clean themselves during rainy weather. However, a layer of dust can form if there is a prolonged dry spell. This could reduce the amount of energy produced by the solar power system.

We do NOT recommend that you climb on the roof to clean the solar panels. Please do not use a high-pressure cleaner or chemical cleaning product on the surface of the solar panels – use plain water at mains pressure or less.

**DO NOT wash solar panels when they are hot. Avoid washing them in the middle of the day, and instead, wash them early in the morning or late in the afternoon.**

- **Heat build-up**
  Exercise caution when touching the inverter housing. The inverter can become hot during use. Some part of the Inverter housing become hot during operation, and sometimes the temperature can reach 60°C in normal operation. Never cover the inverter's heat sinks or vents when it is in use. Please observe the distances around the inverter as laid out in the operating instructions.

- **Dust formation**
  Do not allow excessive dust to build up around the inverter. Never touch damaged cables; report the damage to your installer immediately.

- **Circuit breaker**
  Recurrent tripping of the circuit breaker indicates a fault. Please report this fault to your installer immediately.

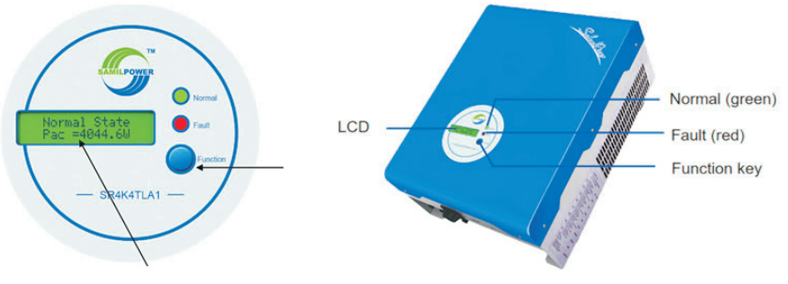
- **Inverter display**
  Regularly check the inverter display and report any malfunctions or warning signals.
  Operating instructions
  Please refer to the enclosed operating instructions for further safety information on your inverter and instructions for displaying your system performance data.

- **Warning Notices**
  All safety instructions and signs on the installation must be kept visible and in legible condition. If the signs are removed, please contact your place of purchase to obtain replacements. Do not cover or paint over safety signs.

- **Disconnecting Solar Panels**
  Your electrician must never disconnect DC plugs on the solar modules while the inverter is feeding power into the grid. Before disconnecting the DC plug you must always switch off the inverter and turn off all AC and DC isolation switches as explained in the steps above.

## 5. Inverter Operations (Samil)

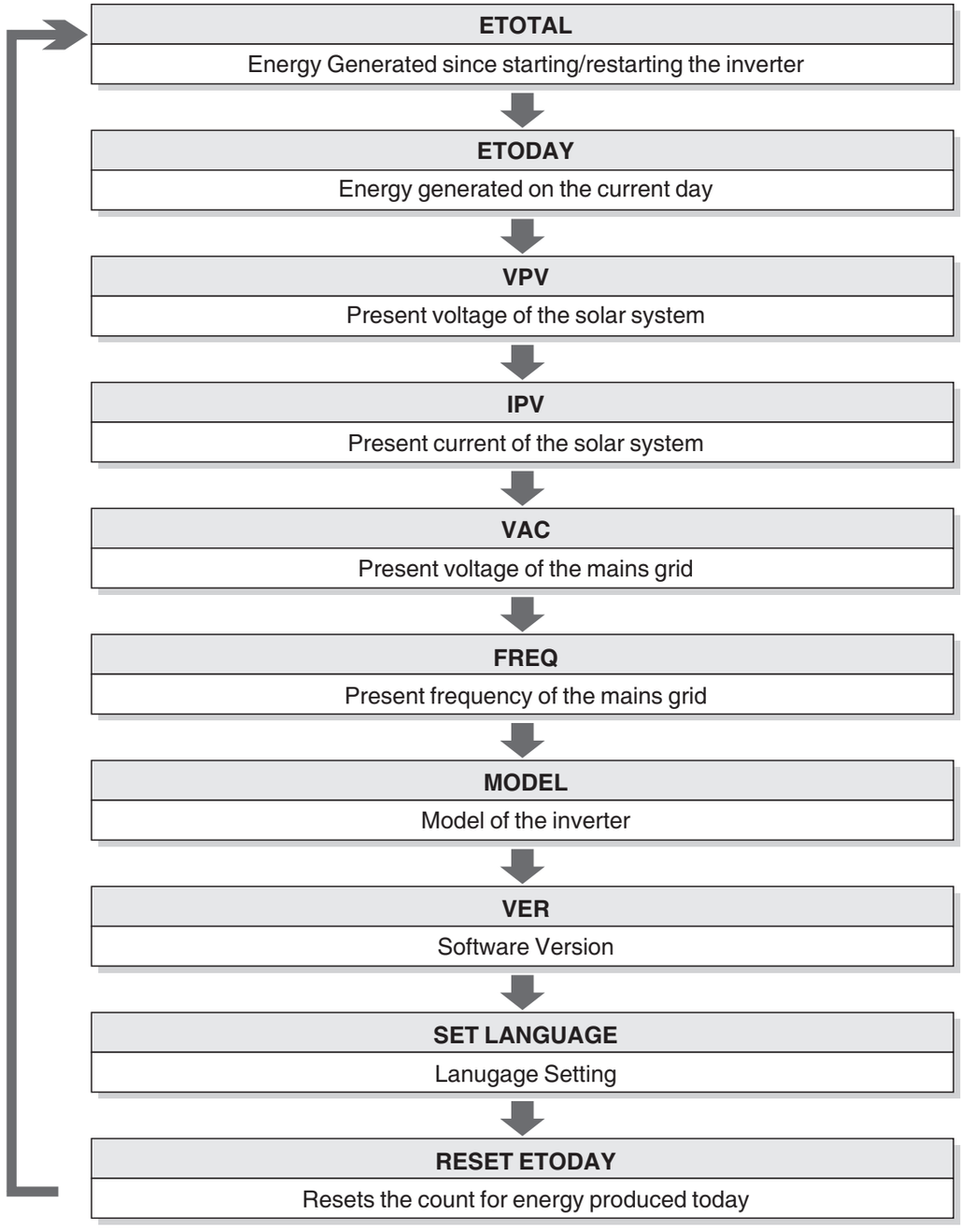
The systems that utilized Samil inverters are those Solar Systems of greater than 2.3kW. These systems utilize a Samil 3kW, 4kW or 5kW depending on your system size. We have provided the basics below for operating the inverter below – further information can be found in the inverter manual.




The “state” of an inverter lets the user know whether the inverter is outputing electricity to the mains grid. A summary of the operating states as will be shown on your LCD display are described in the table below. The “State” display is the default display on your inverter.

| LCD Display | Operating State | Description |
|---|---|---|
| Nothing displayed | Power off | If the DC input voltage is less than 70V the inverter will switch off and the display will not work. |
| “Waiting” | Initialisation and waiting | Input voltage is in-between 70V and 150V where the inverter is on but in standby mode. |
| “Checking” | Checking | Input voltage is greater than 150V and the inverter is checking with the mains grid to connect. |
| “Normal State” | Operating | The inverter is connected to the mains grid and is generating electricity. |

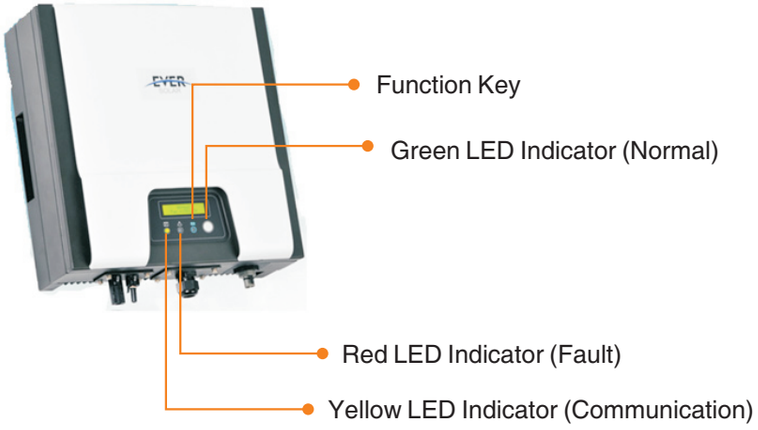
The Samil inverter’s function key will switch between the various displays. If you press the key once it will move to the next item in the menu as shown in the diagram below. The menu is continuous and you have to scroll through by pressing the button multiple times to get to the menu item you wish to view. If you don’t press the key for about 10 seconds, the inverter will revert back to showing the state information.


ETOTAL
Energy Generated since starting/restarting the inverter
ETODAY
Energy generated on the current day
VPV
Present voltage of the solar system
IPV
Present current of the solar system
VAC
Present voltage of the mains grid
FREQ
Present frequency of the mains grid
MODEL
Model of the inverter
VER
Software Version
SET LANGUAGE
Lanugage Setting
RESET ETODAY
Resets the count for energy produced today

## 6. Inverter Operations (EverSolar)

The systems that utilized Eversolar inverters are those Solar Systems of less than or equal to 2.3kW. These systems utilize an EverSolar 1.7 or 2.3kW inverter depending on your system size. We have provided the basics below for operating the inverter below – further information can be found in the inverter manual.

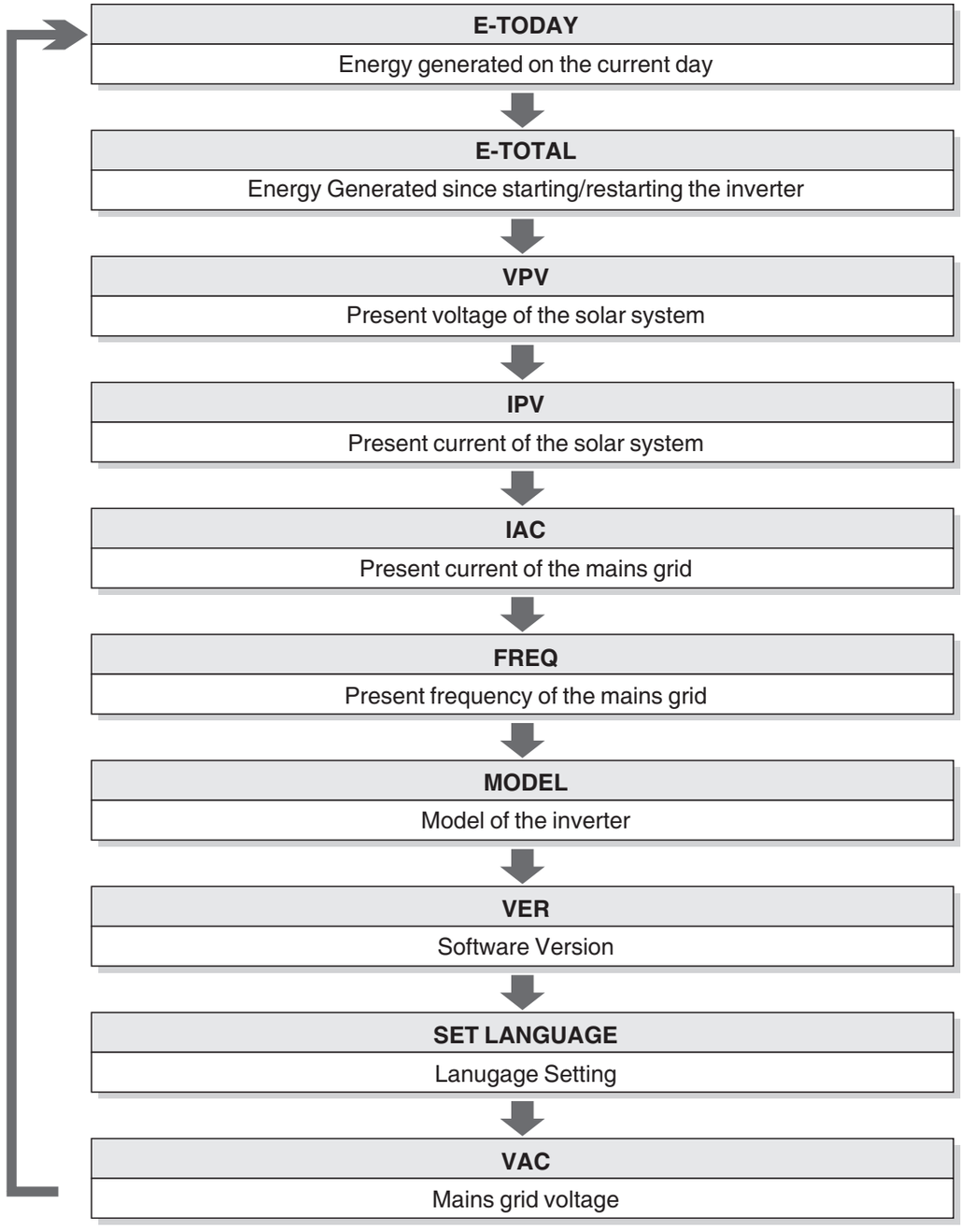
The EverSolar inverters are equipped with three LED indicators (Green, Yellow and Red) which provide information about various operating states. When the green light is on, the inverter is operating normally. When the Red light on it indicates a fault in the system or with the inverter and the LCD display will provide some information on the fault that we have provided in a table after the following figure. The Yellow indicator shows that the inverter is communicating with other devices if you have set up the inverter to a personal computer for example.




The “state” of an inverter lets the user know whether the inverter is outputing electricity to the mains grid. A summary of the operating states as will be shown on your LCD display are described in the table below. The “State” display is the default display on your inverter.

| LCD Display | Operating State | Description |
|---|---|---|
| Nothing displayed | Power off | If the DC input voltage is less than 70V the inverter will switch off and the display will not work. |
| “Waiting” | Initialisation and waiting | Input voltage is in-between 70V and 150V where the inverter is on but in standby mode. |
| “Reconnect” | Reconnecting | Voltage has risen above 150V and the inverter is reconnecting. |
| “Checking” | Checking | Input voltage is greater than 150V and the inverter is checking with the mains grid to connect. |
| “Normal” | Operating | The inverter is connected to the mains grid and is generating electricity. |

The Eversolar inverter’s function key will switch between the various displays. If you press the key once it will move to the next item in the menu as shown in the diagram below. The menu is continuous and you have to scroll through by pressing the button multiple times to get to the menu item you wish to view. If you don’t press the key for about 10 seconds, the inverter will revert back to showing the state information.


E-TODAY
Energy generated on the current day
E-TOTAL
Energy Generated since starting/restarting the inverter
VPV
Present voltage of the solar system
IPV
Present current of the solar system
IAC
Present current of the mains grid
FREQ
Present frequency of the mains grid
MODEL
Model of the inverter
VER
Software Version
SET LANGUAGE
Lanugage Setting
VAC
Mains grid voltage

## 7. System Maintenance Timetable

**Once a fortnight:**

- Check inverter and meter displays to ensure operating status is normal and that the energy production is not lower than expected.

**Once every three months**

- Check the array for shading during the middle of the day, ideally between 10am and 4pm. Surrounding trees may have grown since the solar system was installed, and may need to be trimmed.
- Check your electricity bill to ensure you are being credited for energy generated by your solar power system. The easiest way to do this is to compare your current bill with the bill for the same period last year. The bill should show fewer kilowatt hours being consumed.
- If not, you may have:

a. Bought any new appliances or made changes to your lifestyle that may mean you are using more energy than in the same period last year?
b. Your solar power system generates less energy in winter and more in summer. If it is currently winter, the solar power system may not make a significant difference to your bill.
c. If you have not had your solar power system for the full quarter, it may not have generated enough energy to make a significant difference to your bill.

- If none of the above explains the difference, and you are still concerned, call your system installer and ask for assistance to test the inverter and find out how much energy you have generated. Then, if required, contact your electricity retailer and check that their billing system includes energy generated by your solar power system.

**Once a year:**

- The installer of your Solarland power system or a qualified electrician should carry out an annual maintenance check.

## 8. Warranty Terms and Conditions

Inclusive within this warranty are all terms, conditions and rights provided to the end consumer under Australian Law, and as are described in the Trade Practices Act 1974 (Cth) and any other statutory rights to which the purchaser may be entitles subject to meeting the terms and conditions as set out below.
Solarland Australia warrants the Solar Kit against defects in manufacturing, performance and any defects subject to the following conditions. The Solar Kit is comprised of a photovoltaic solar panel array, mounting brackets and racking, direct current to alternating current inverter, enclosures, circuit breakers, cabling and wiring.

**Product Types & Warranty Term**
Solarland Australia warrants that the Solar Kit components shall be fee of manufacturing defects and shall perform in accordance with their specifications. Details are provided below on product types:

- **SolarlandTM On-Grid Panels**
  Solarland Australia warrants that a solar panel provided as part of the Solar Kit shall provide a minimum of 90% of the nominated DC power output of the panel for a period of 10 years from the date of sale. Further, the panel shall provide a minimum of 80% of the nominated DC power output capacity of the panel for a period of twenty five years from the date of sale. Panel workmanship is warranted for a period of ten years.
- **Inverters**
  Solarland Australia provides a local service point for all the inverters that it supplies in Solarland's Solar Kits. Inverters are provided with a manufactures warranty for 5 years. The customer must complete the inverter warranty card supplied with the inverter must and send it to the address specified by the inverter manufacturer. Talk to the dealer from who you purchased the system to find out about extending your inverter warranty to 10 years.
- **Balance of System**
  All other components (enclosures, cabling, breakers, racking system) are covered by Solarland Australia for a period of 5 years.

**Performance Testing**
Performance of system components shall be deemed and tested as set out in the testing procedures below. During the Warranty Period, testing of the performance of a system shall be conducted at all times in accordance with the following procedure:

- **Level 1 performance testing:** If a system is producing zero electricity, the customer will first contact the place of purchase or the installer to action testing*[1] . The Seller or Installer will then co-ordinate a visit to the site to determine the cause of the fault. If the fault is reasonably determined to be due to manufacturing, faulty material or installation, the fault will be rectified at no cost to the customer. If determined to be caused by external sources, rectification will be at the customers expense as set out below.
- **Level 2 performance testing -** If the customer believes the system to be underperforming, the customer will contact the Seller or Installer get information on recording and completing a Performance Log for the system*. The Seller or Installer will assess Performance Log Form based on installation parameters, and reasonably expected performance under specific conditions applicable to the installation location. If Solarland Australia determines the Solar Kit to be performing at lower than expected capacity, then a visit will be made by a technician to the installation address to determine the cause of the fault. If the fault is reasonably determined to be due to manufacturing, faulty material or installation, the fault will be rectified at no cost to the customer. If determined to be caused by external sources, rectification will be at the customer's expense as set out below.
- **Level 3 Performance Testing -** If the customer requires performance testing to be carried out in respect of the Solar Kit which requires materials to be tested by any external third party, then any costs associated with the dismantling of the Solar Kit component, transport and labour shall be paid for in full by the customer. If during the warranty period, testing determine that the component is not performing within specifications, then the testing fees, transport and labour shall be waived or reimbursed, and testing provided at no cost to the customer. If any performance outside the specifications is determined to be the result of external factors including but not limited to the exceptions below, then any testing fees, transportation and labour shall be immediately payable by the customer.

**Fees -** Expenses incurred in respect of testing shall be determined as follows (ex-GST):

- Level 1 performance testing fee - $300
- Level 2 performance testing fee- $500
- Level 3 performance testing - AT COST
- Transport and labour costs - AT COST

**Warranty Exclusions and Exceptions**

Notwithstanding any statutory obligations to the contrary:

- Under no circumstances shall Solarland Australia be liable for any replacement of materials:
- Where the Warranty Card has not been fully completed and a legible Tax Invoice for purchase are not presented at the time of warranty claim.
- Where there is any evidence of tampering with the installation by a third party that is not an approved technician of Solarland Australia.
- Damage, malfunctions or service failures are caused by misuse, abuse or negligent acts. Where any fault or defect is due to any solid matter on the panels
- Due to any Act of God (power failure surges, lightening strike, pest damage, storm, fire or other natural occurrence) whatsoever or other events outside Solarland Australia's reasonable control.
- Where the serial numbers on the Solar Kit components have been altered, removed or rendered illegible.

Replacement components will carry the balance of warranty from the original date of purchase, not a full new warranty.

This Warranty specifically excludes any and all consequential losses suffered whatsoever by the customer including but not limited to replacement of goods or materials, due to any direct or indirect consequence of power surge, water leak or other factor determined or otherwise associated with the installation and performance of the Solar Kit

This Warranty excludes replacement of panels due to breakage of glass after installation of the panels, which replacement would be covered by standard household insurances.

Performance warranty excludes any reduction in capacity or performance degradation due to incorrect installation, or installation in non ideal locations or directions, or subject to shading. Any Solar Kit installed under conditions different to the nominal output testing conditions shall have a de-rate factor applied in accordance with the installation conditions.

Installation warranties shall be specifically excluded if the installation is undertaken by an installer other than as recommended by Solarland Australia.

[1] *If the customer can not contact the Seller or Installer, the customer can contact Solarland Australia via email at service@solarland.com.au with a scanned copy of the installation documentation and receipt that shows the place and data of purchase and the name and contact details of the installer. The Customer should include in the subject of the email the installation address – Subject: Warranty Claim - <insert installation address>.

**Validity Requirements**

For this Solarland Australia Warranty to be valid, the customer must:

- Have the Solar Kit installed in accordance with Australian Standard AS4777 by a licensed electrician who is approved and accredited by the Clean Energy Council.
- Use Solar Kit Components supplied by Solarland Australia only
- Provide a Tax Invoice for the system purchase and a singed system warranty card including date of installation, and signed by the installer when making any claim whatsoever.

**Limitation of Liability**

The Warranty terms and conditions here to attached shall in no circumstances create a liability in excess of the amount paid by the customer for the Solar Kit.

Solarland Australia makes no warranties, express or implied, other than the warranties made herein, and specifically disclaims any warranty of merchantability or fitness for a particular purpose. Any warranties implied by, including those of merchantability and fitness for particular purpose, which are not effectively excluded herein are limited in duration to the terms stated in this warranty.

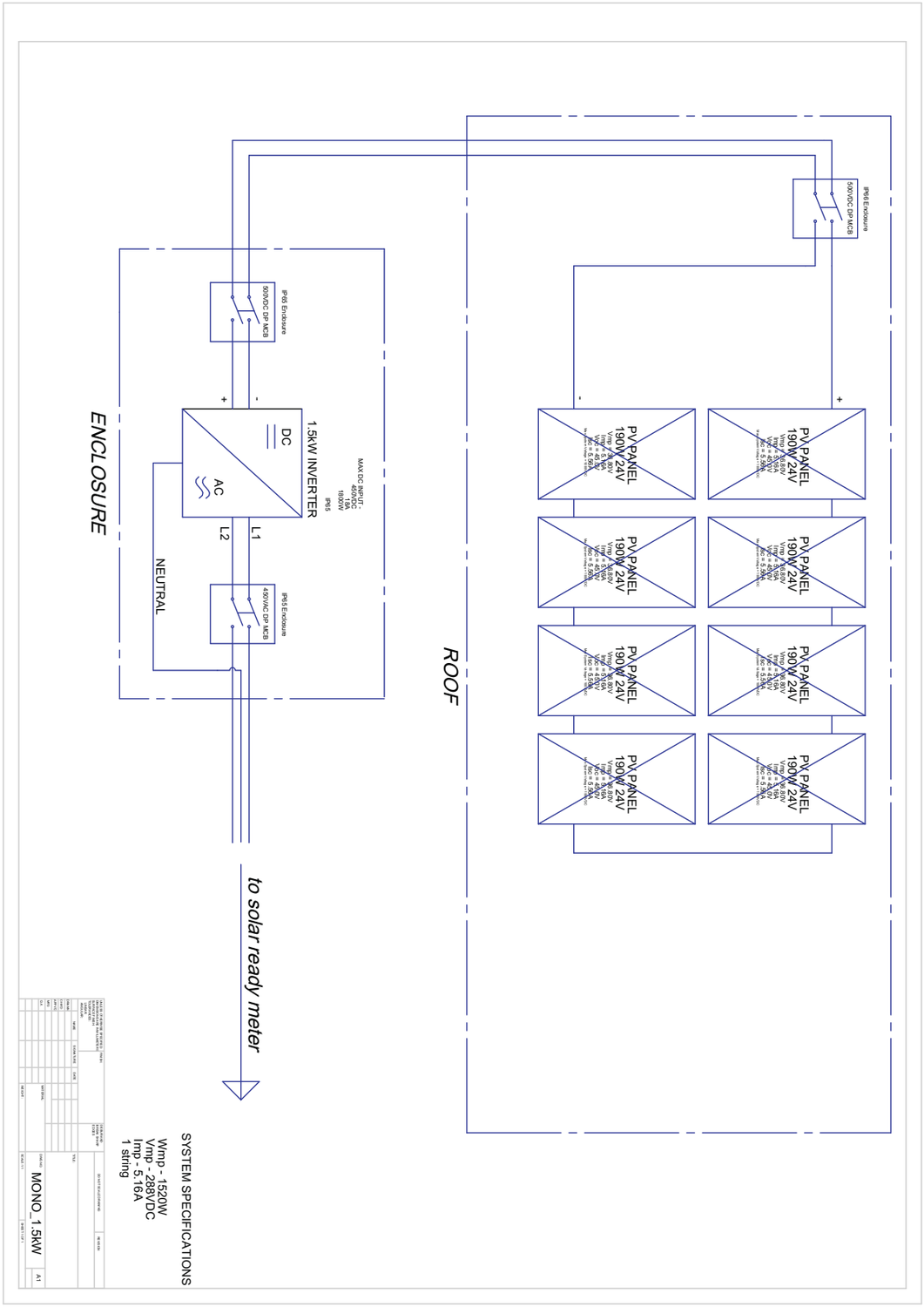
Solarland Australia is not responsible for any special incidental consequential or punitive damages arising from the use or loss of the use of or failure of your product to perform as warranted.

Solarland Australia, to the extent required by applicable law, nothing in this warranty shall operate or shall be construed to operate so as to exclude or restrict the liability of Solarland Australia for the death or personal injury caused to the purchaser by reason of the negligence of Solarland Australia or its servants, employees or agents.

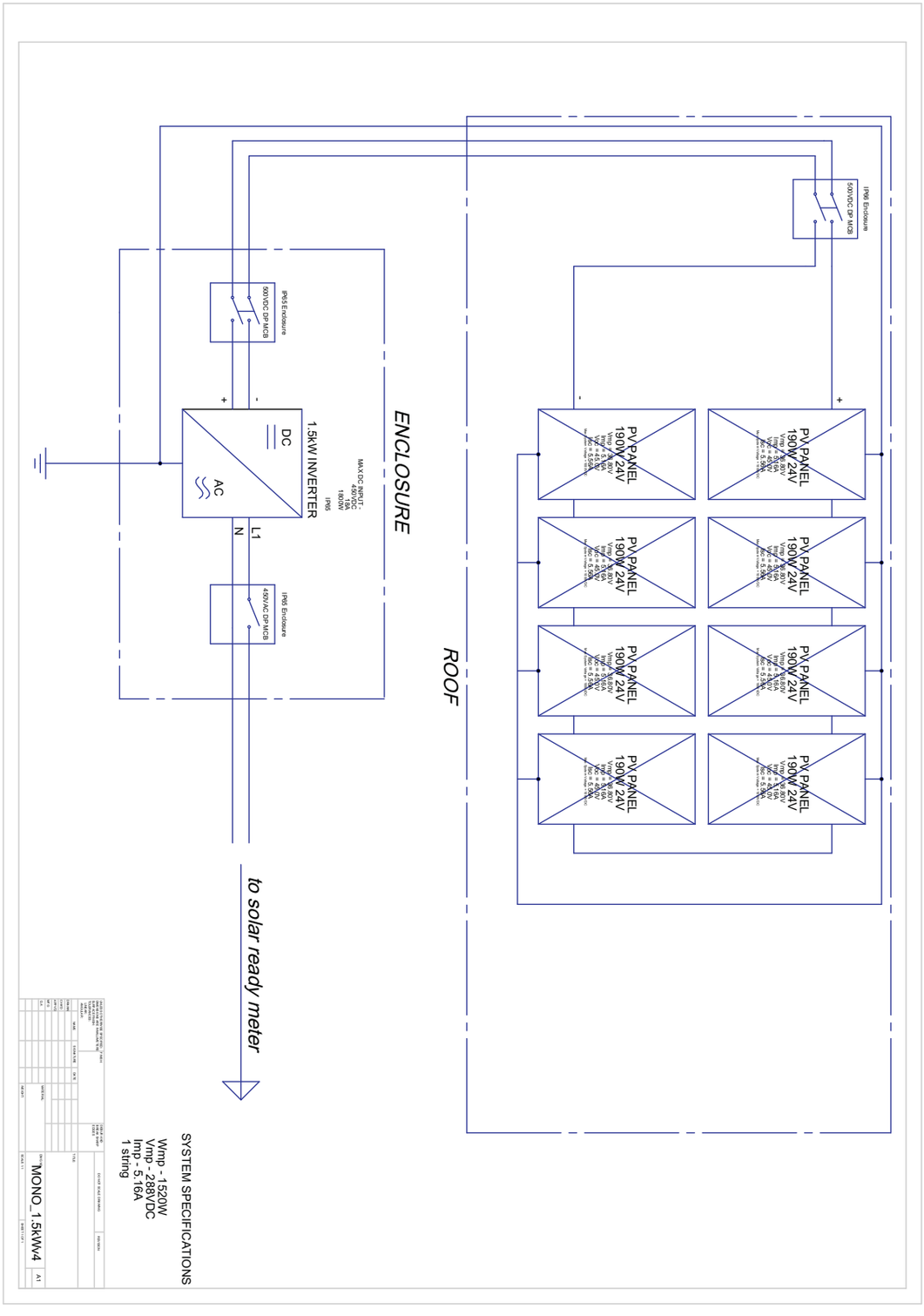
Any claim or dispute arising under or in connection with this warranty must be brought in the courts of the State of New South Wales, Australia.

## 9. System Drawings

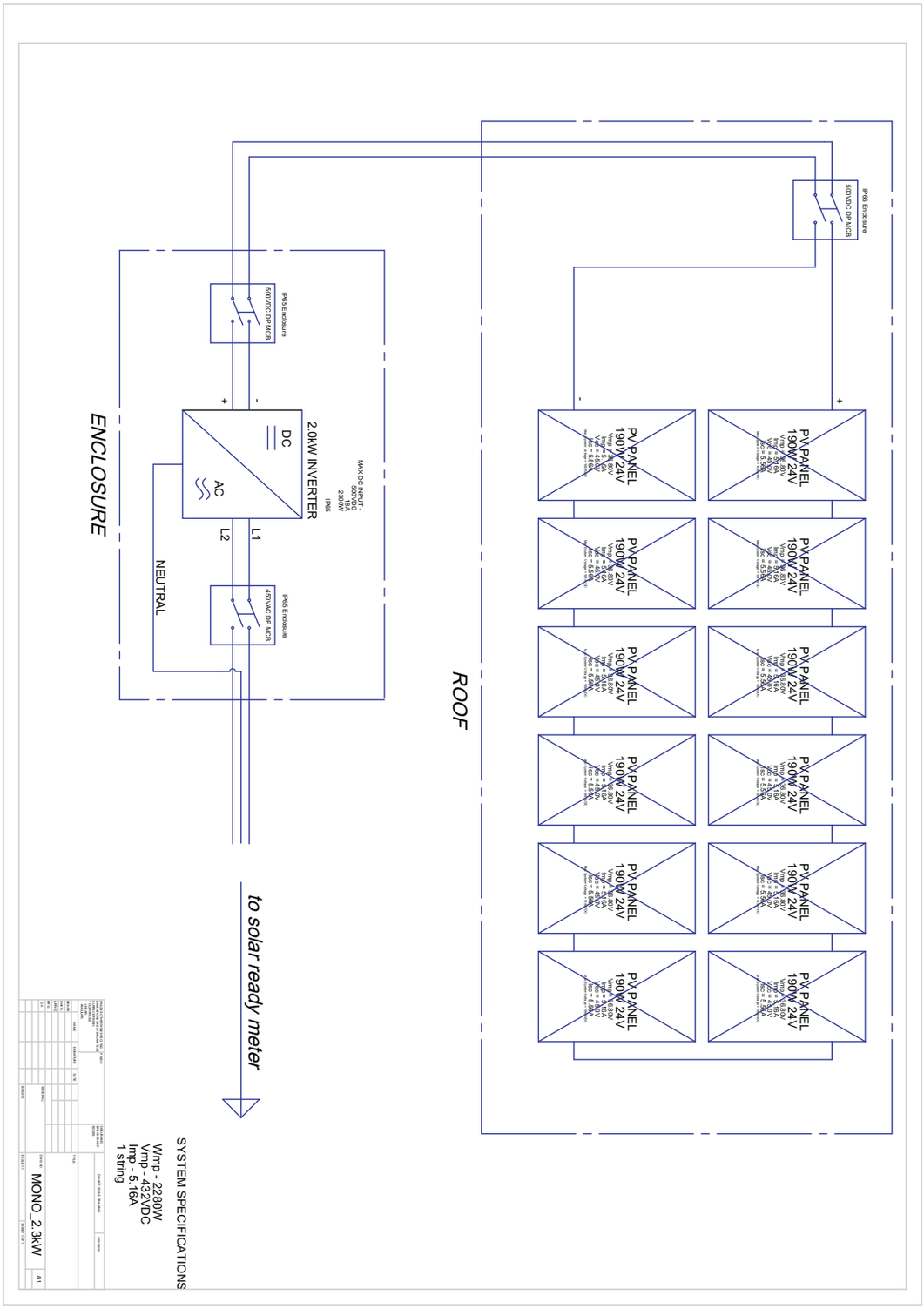
MONO 1.5kW



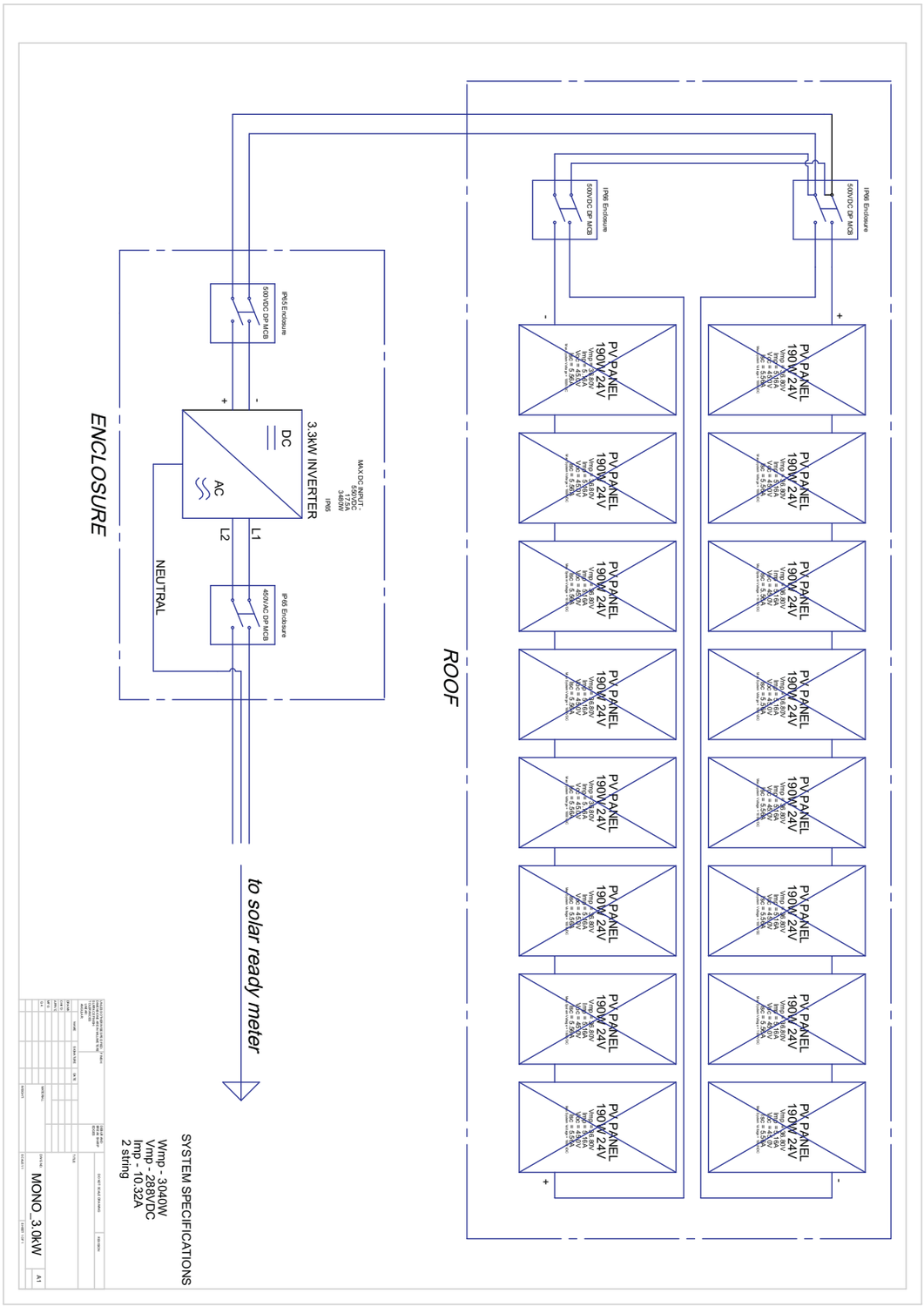
MONO 1.5kW with earthing



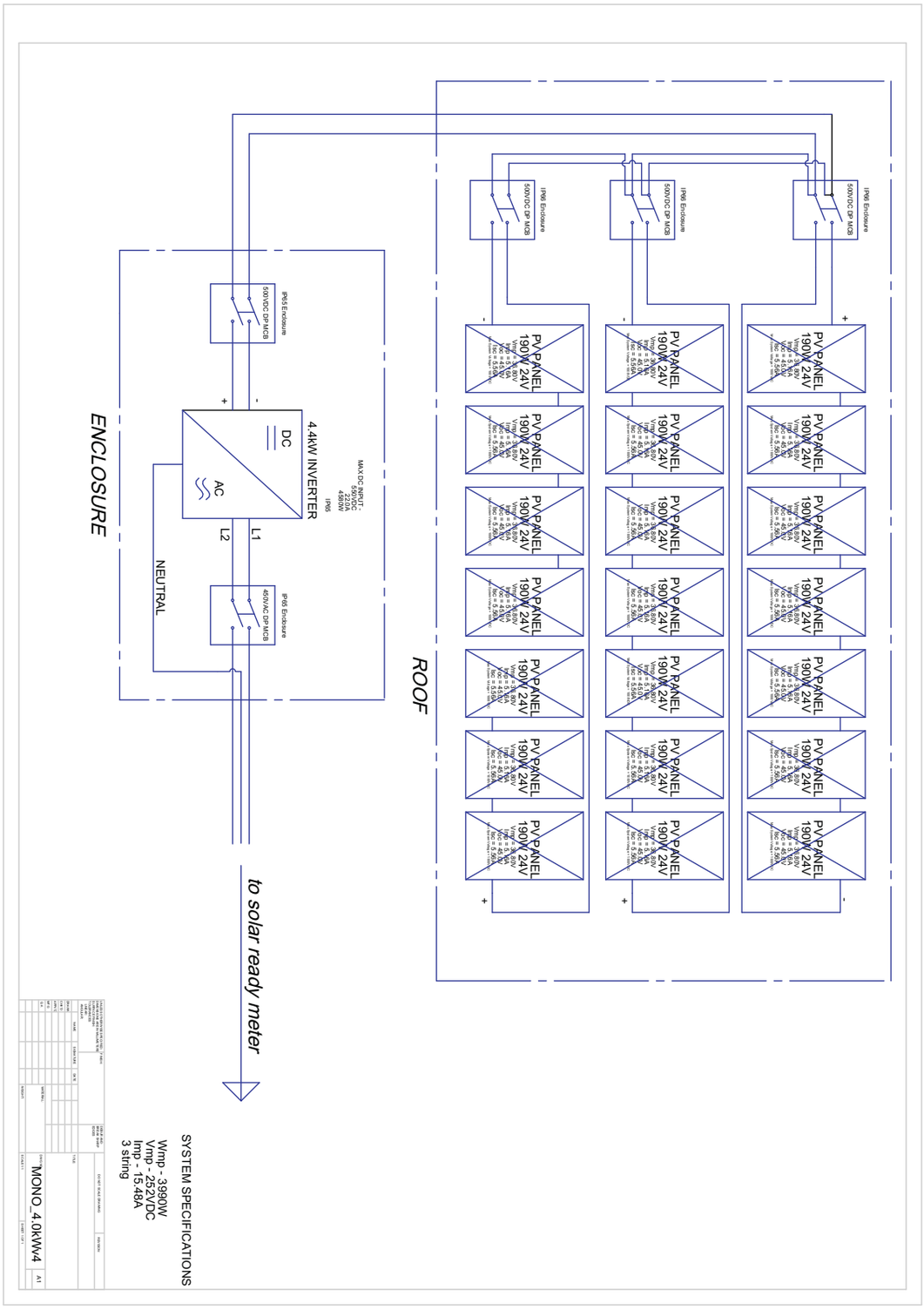
MONO 2.3kW


ROOF
ENCLOSURE
PV PANEL 190W 24V
IP66 Enclosure
500VDC DP MCB
2.0KW INVERTER
DC
AC
L1
L2
NEUTRAL
IP65 Enclosure
450VAC DP MCB
to solar ready meter
SYSTEM SPECIFICATIONS
Wmp - 2280W
Vmp - 432VDC
Imp - 5.16A
1 string
MONO_2.3kW

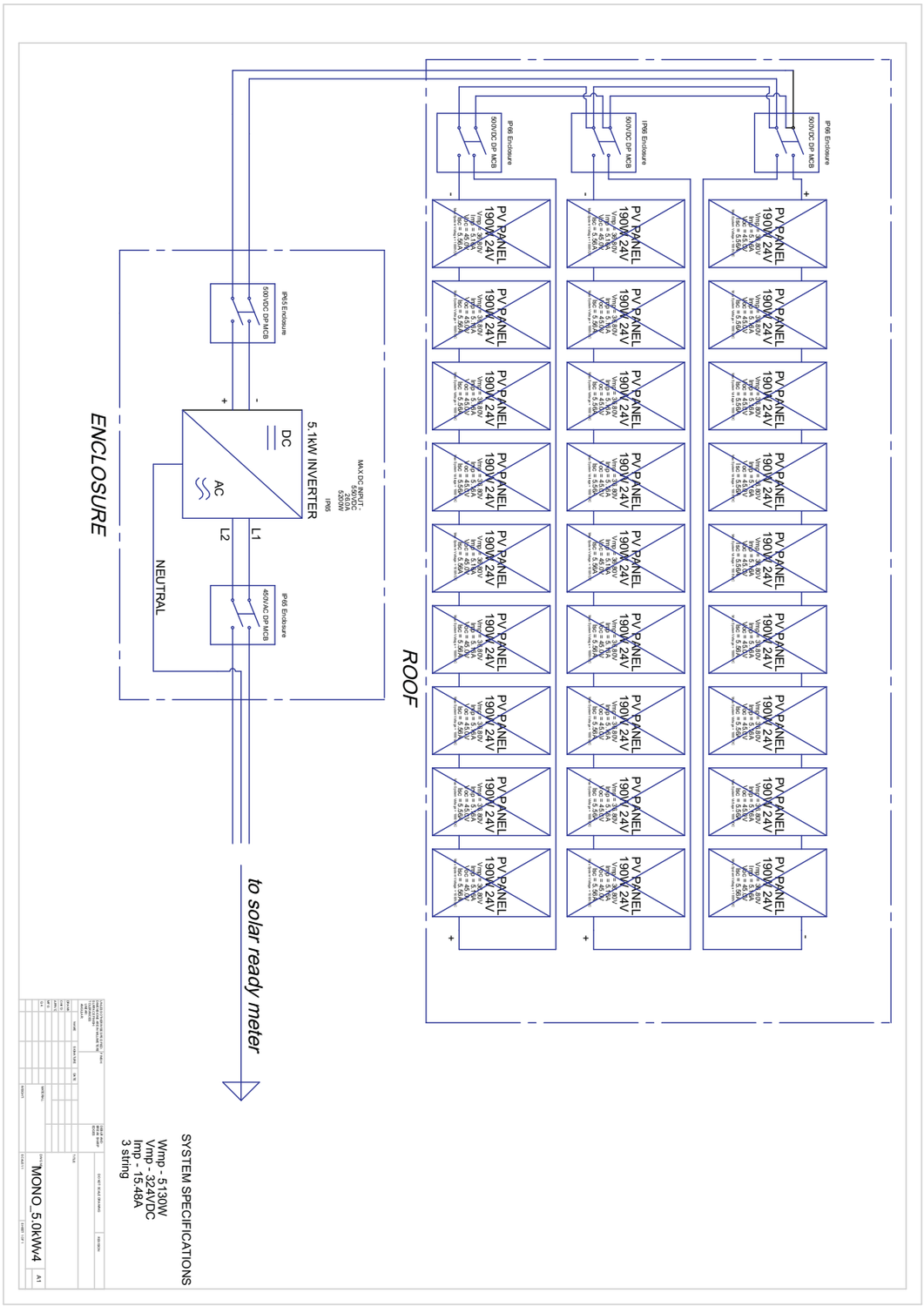
MONO 3.0kW


ROOF
ENCLOSURE
IP66 Enclosure
500VDC DP MCB
PV PANEL
190W 24V
Vmp = 36.80V
Imp = 5.16A
Voc = 45.0V
Isc = 5.59A
3.3KW INVERTER
DC
AC
L1
L2
NEUTRAL
450VAC DP MCB
to solar ready meter
SYSTEM SPECIFICATIONS
Wmp - 3040W
Vmp - 288VDC
Imp - 10.32A
2 string
MONO_3.0kW
A1

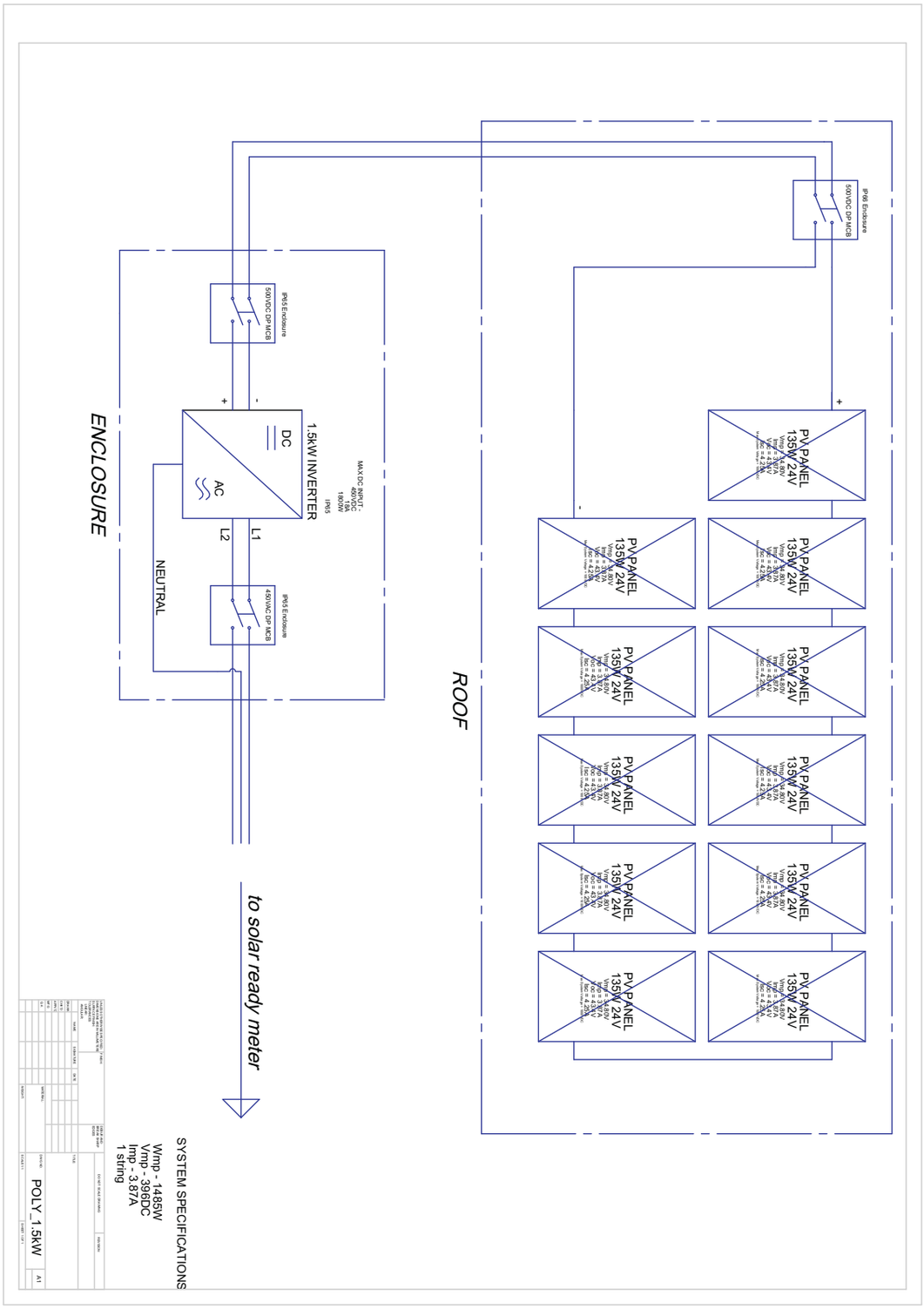
MONO 4.0kW


ROOF
ENCLOSURE
PV PANEL 190W 24V
IP66 Enclosure
500VDC DP MCB
4.4KW INVERTER
DC
AC
L1
L2
NEUTRAL
450VAC DP MCB
to solar ready meter
SYSTEM SPECIFICATIONS
Wmp - 3990W
Vmp - 252VDC
Imp - 15.48A
3 string
MONO_4.0kWW4

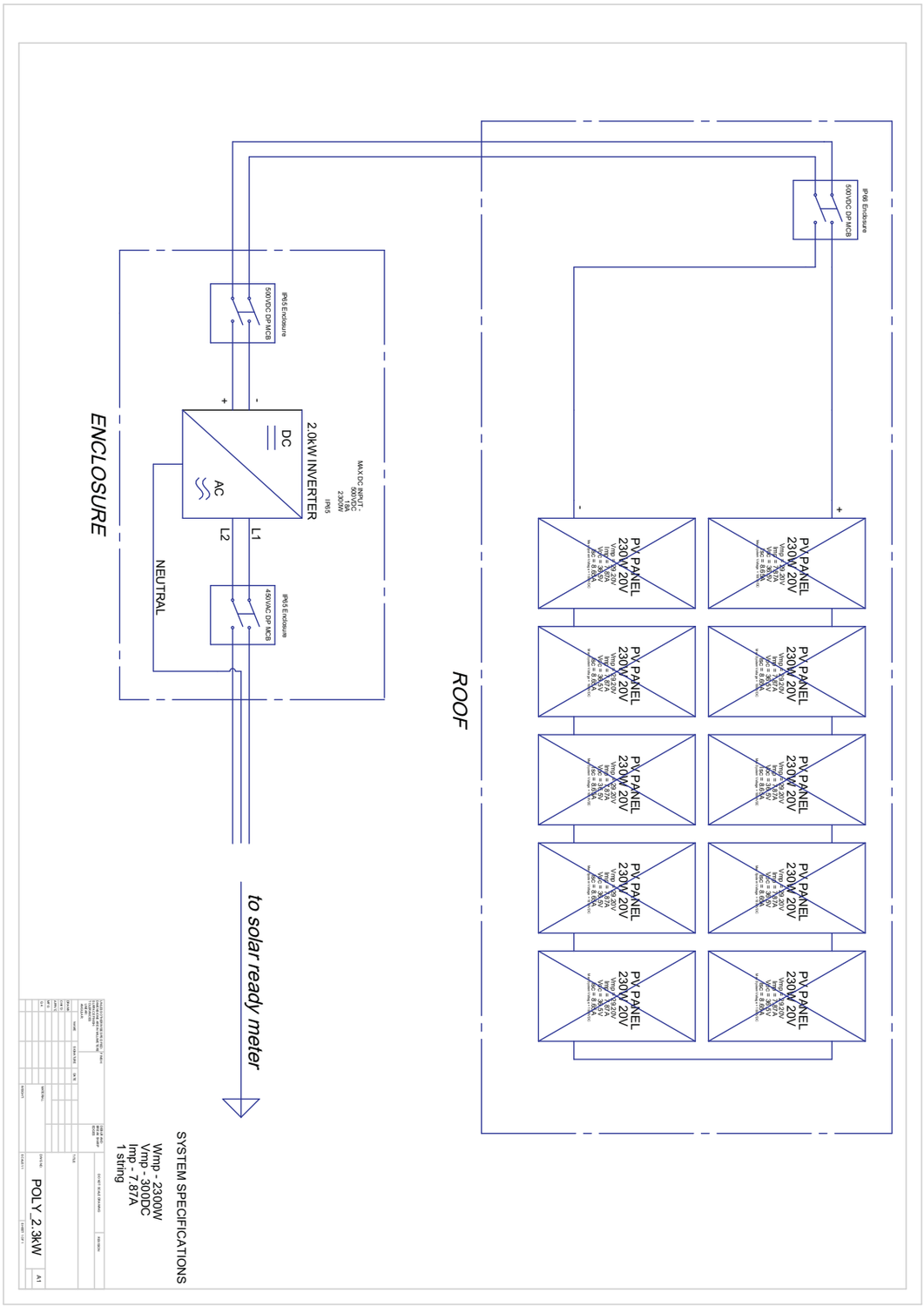
MONO 5.0kW


ROOF
PV PANEL 190W 24V
IP66 Enclosure
500VDC DP MCB
ENCLOSURE
5.1KW INVERTER
DC
AC
L1
L2
NEUTRAL
450VAC DP MCB
to solar ready meter
SYSTEM SPECIFICATIONS
Wmp - 5130W
Vmp - 324VDC
Imp - 15.48A
3 string
MONO_5.0KW4

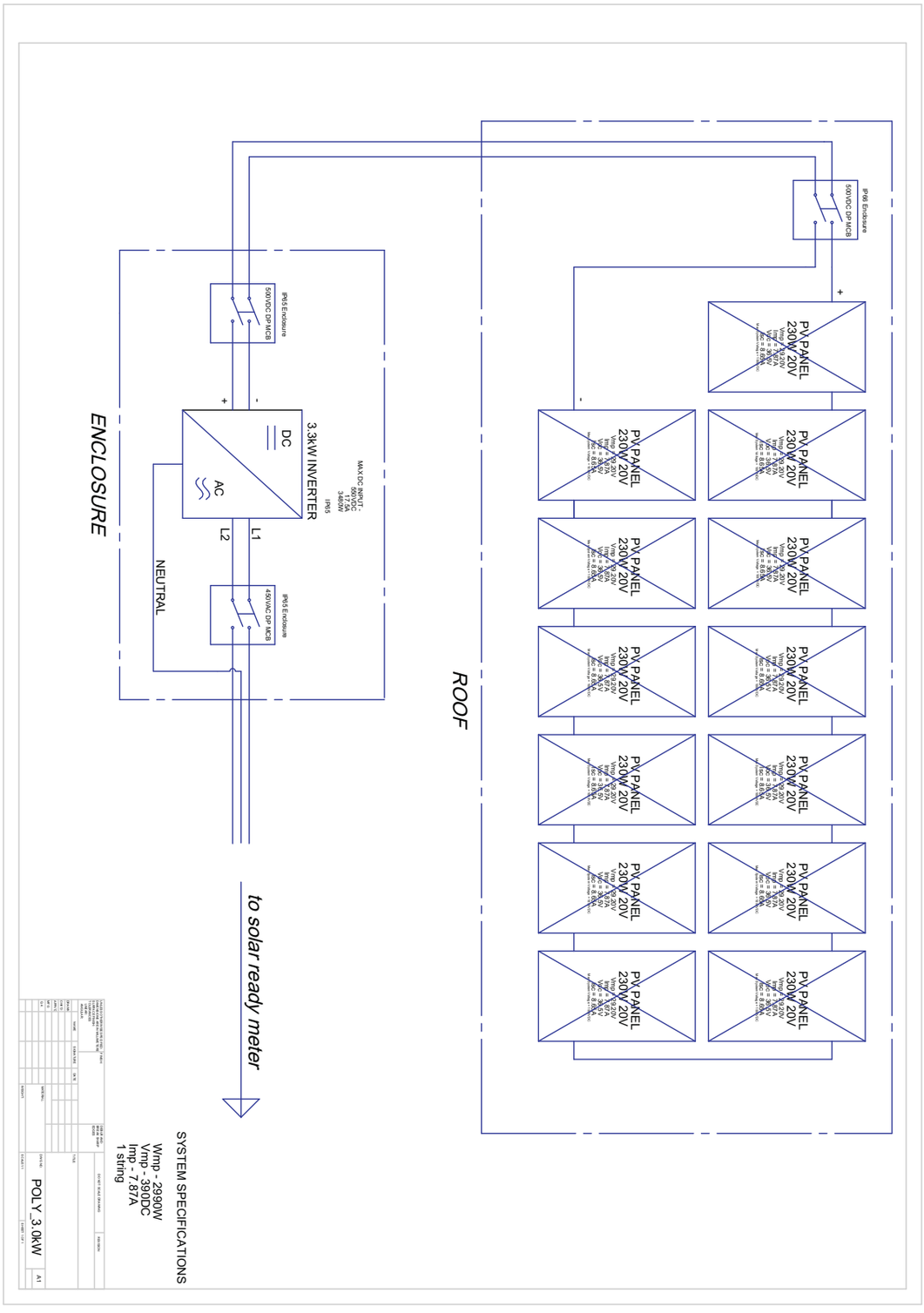
POLY 1.5kW


ROOF
ENCLOSURE
PV PANEL 135W 24V
1.5KW INVERTER
DC
AC
L1
L2
NEUTRAL
to solar ready meter
SYSTEM SPECIFICATIONS
Wmp - 1485W
Vmp - 396DC
Imp - 3.87A
1 string
POLY_1.5KW
A1

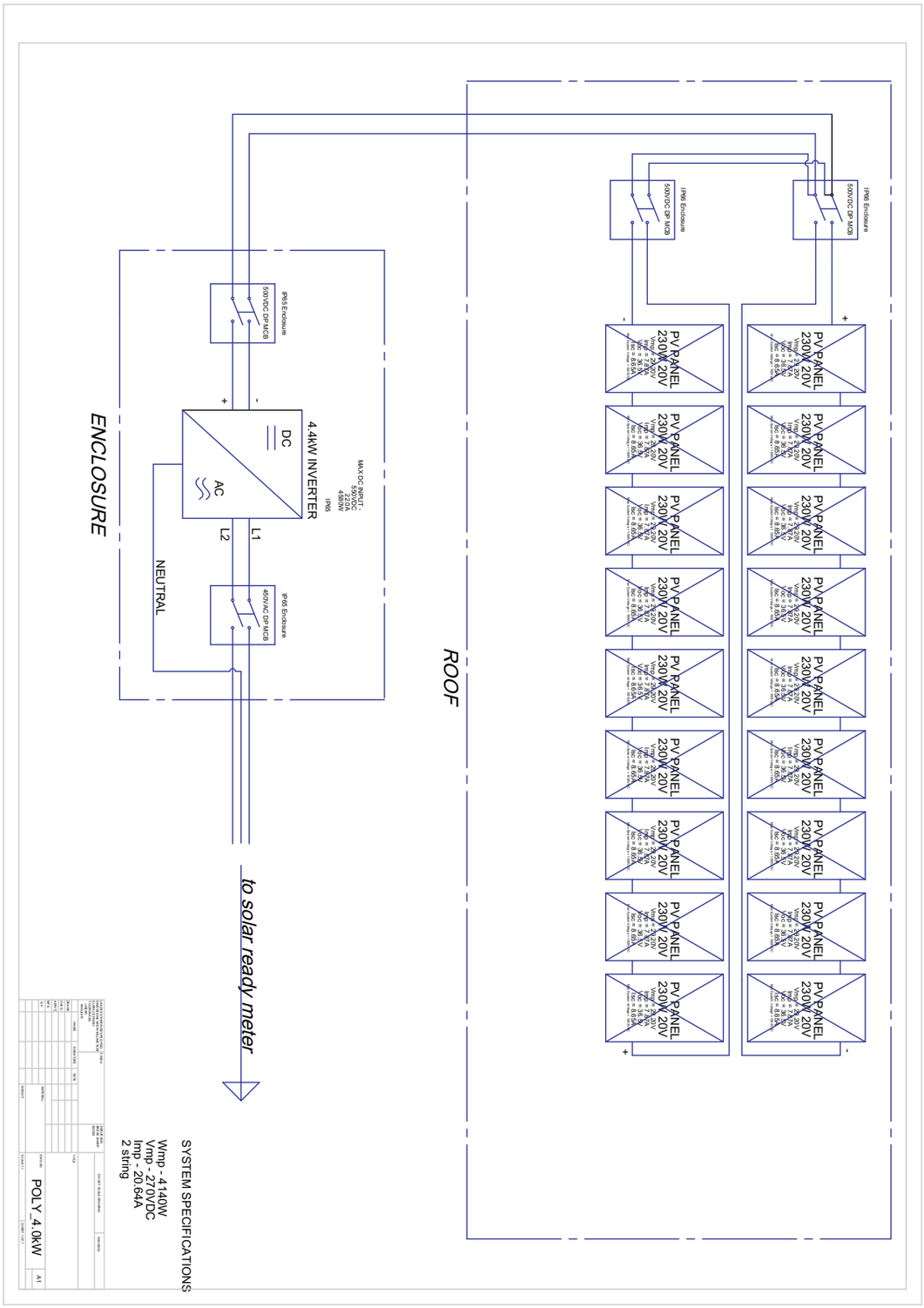
POLY 2.3kW


ROOF
ENCLOSURE
PV PANEL 230W 20V
IP66 Enclosure
500VDC DP MCB
2.0KW INVERTER
DC
AC
MAX DC INPUT - 500VDC - 18A - 2300W
IP65
IP65 Enclosure
500 VDC DP MCB
450VAC DP MCB
L1
L2
NEUTRAL
to solar ready meter
SYSTEM SPECIFICATIONS
Wmp - 2300W
Vmp - 300DC
Imp - 7.87A
1 string
POLY_2.3kW
A1

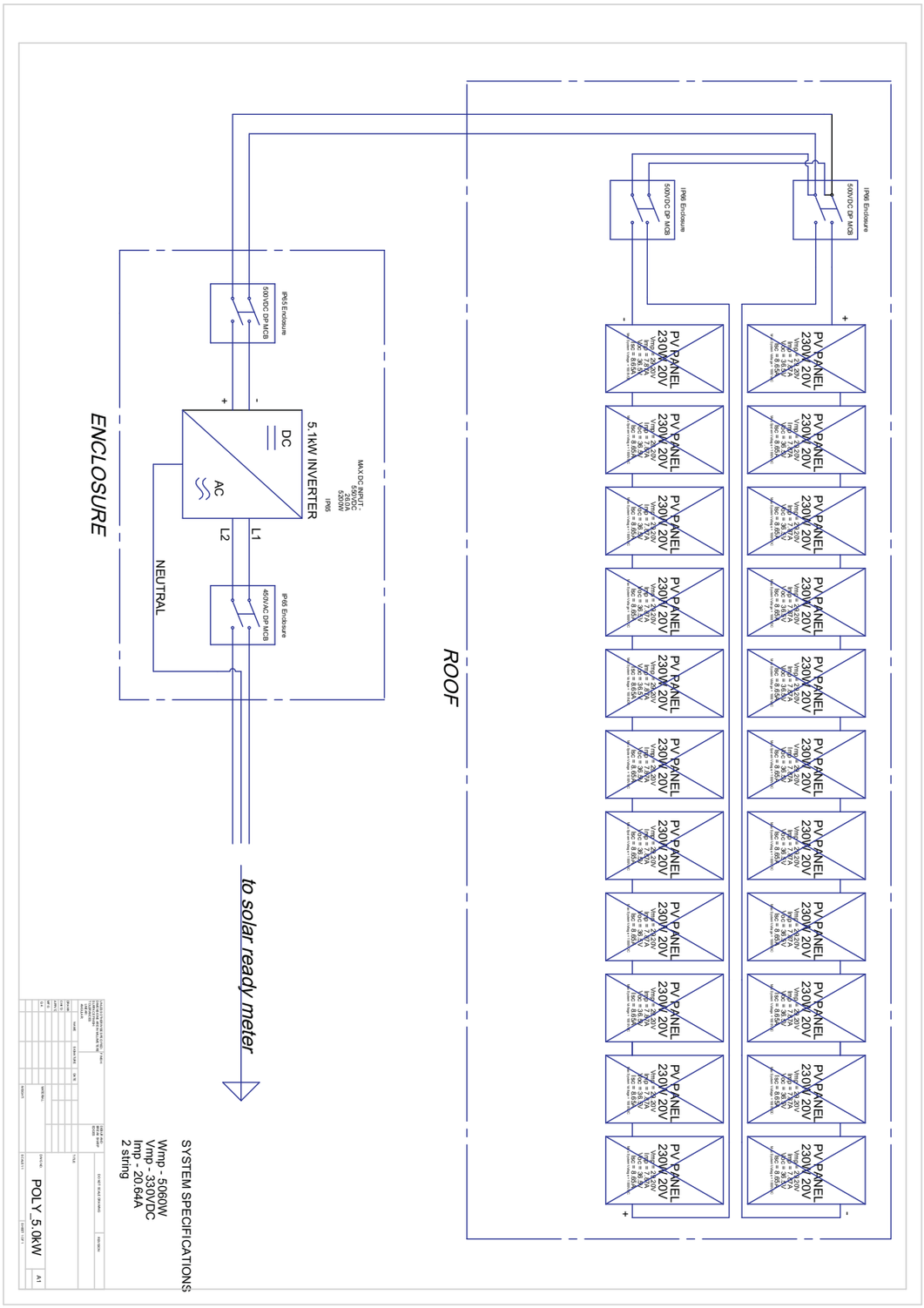
POLY 3.0kW


ROOF
ENCLOSURE
PV PANEL 230W 20V
IP66 Enclosure
500VDC DP MCB
3.3KW INVERTER
DC
AC
L1
L2
NEUTRAL
IP65 Enclosure
500 VDC DP MCB
430VAC DP MCB
to solar ready meter
SYSTEM SPECIFICATIONS
Wmp - 2990W
Vmp - 390DC
Imp - 7.87A
1 string
POLY_3.0kW
A1

POLY 4.0kW


IP66 Enclosure
500VDC DP MCB
PV PANEL
230W 20V
Vmp = 29.90V
Imp = 7.70A
Voc = 36.70V
Isc = 8.65A
ROOF
ENCLOSURE
IP65 Enclosure
500VDC DP MCB
MAX DC INPUT -
600VDC
210A
4.4KW INVERTER
IP65
DC
AC
L2
L1
NEUTRAL
IP65 Enclosure
450VAC DP MCB
to solar ready meter
SYSTEM SPECIFICATIONS
Wmp - 4140W
Vmp - 270VDC
Imp - 20.64A
2 string
POLY_4.0kW
A1

POLY 5.0kW


ROOF
ENCLOSURE
IP66 Enclosure
500VDC DP MCB
PV PANEL
230W 20V
Vmp = 29.90V
Imp = 7.70A
Voc = 36.70V
Isc = 8.65A
5.1KW INVERTER
DC
AC
MAX DC INPUT -
600VDC
210A
5200W
IP65
L1
L2
NEUTRAL
450VAC DP MCB
to solar ready meter
SYSTEM SPECIFICATIONS
Wmp - 5060W
Vmp - 330VDC
Imp - 20.64A
2 string
POLY_5.0kW
A1

# Warranty Card

Installation Address: (no PO Boxes).....

.....

Owners Name:.....

Owners email address:.....

Telephone:..... Date of Installation:.....

.....

Dealer name:.....

Dealer Address:.....

Telephone:.....

E-Mail:.....

.....

Installers Name:.....

Installers License Number:.....

Installers Contact details:.....

.....

Solar Panel Serial Numbers:.....

.....

.....

.....

.....

Inverter Type:..... Inverter Code:.....

Inverter Serial Number:.....

Hereby I confirm the correctness of the data and that I have taken note of the warranty terms and conditions.

Date:..... Customer Signature:.....

Date:..... Installer Signature:.....

**NOTE:** This Card, the Warranty Card of the Inverter, and the Tax Invoice for the purchase of the system must be kept in a safe place, out of sunlight. When making a warranty claim, these must presented, where all sections are legible.

Contact Details:
Solarland Australia Pty Ltd
Wetherill Park, New South Wales
Phone 1300 228 966
Email: service@solarland.com.au